

TITLE:INTESTINAL REGIONAL AIRCRAFT BOARDING PIER, AND METHOD OF USING SAME
INVENTORS NAME: John Greaves et al.
SERIAL NO.: 10/661,942
1/25

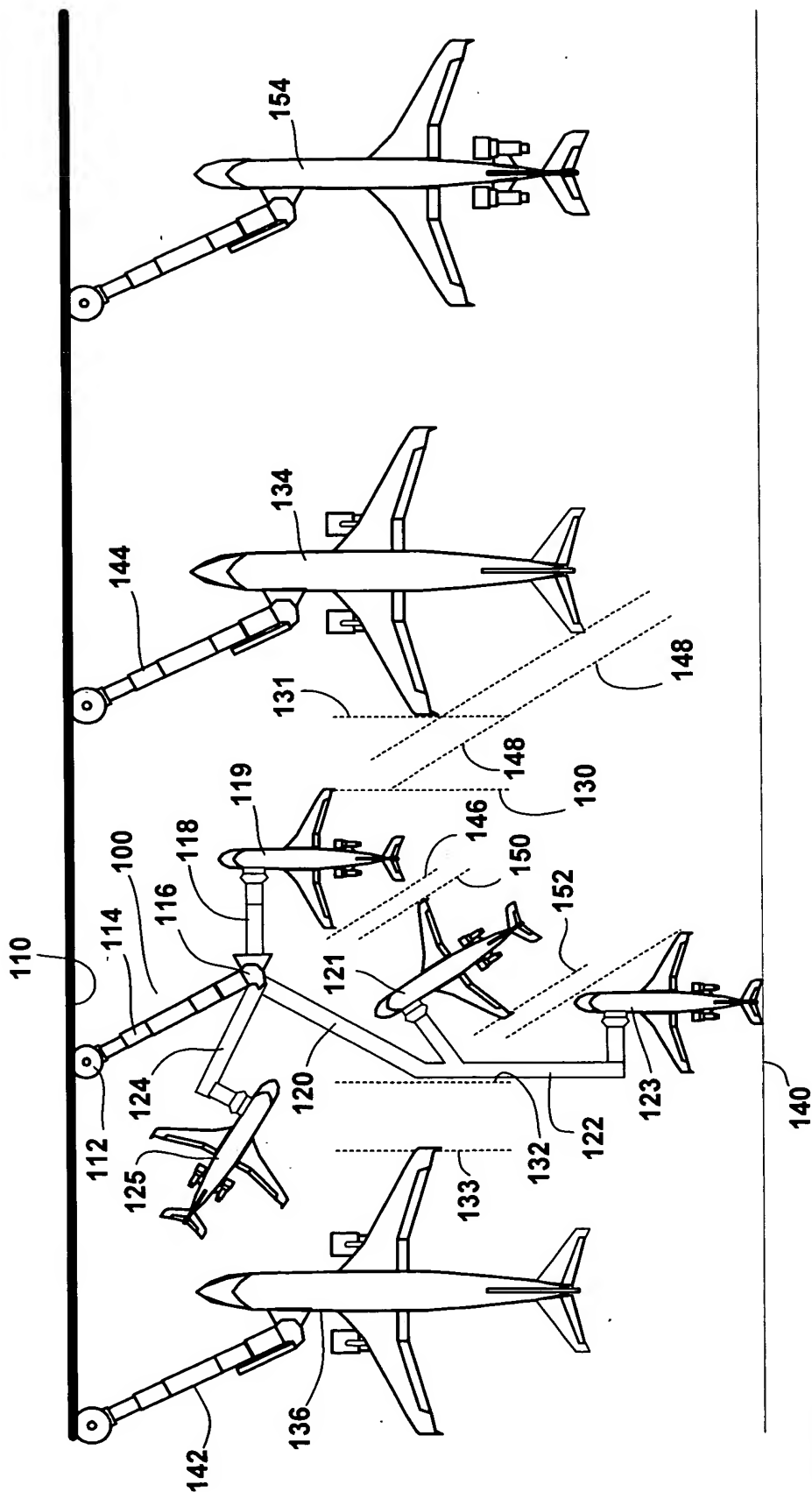


FIG. 1

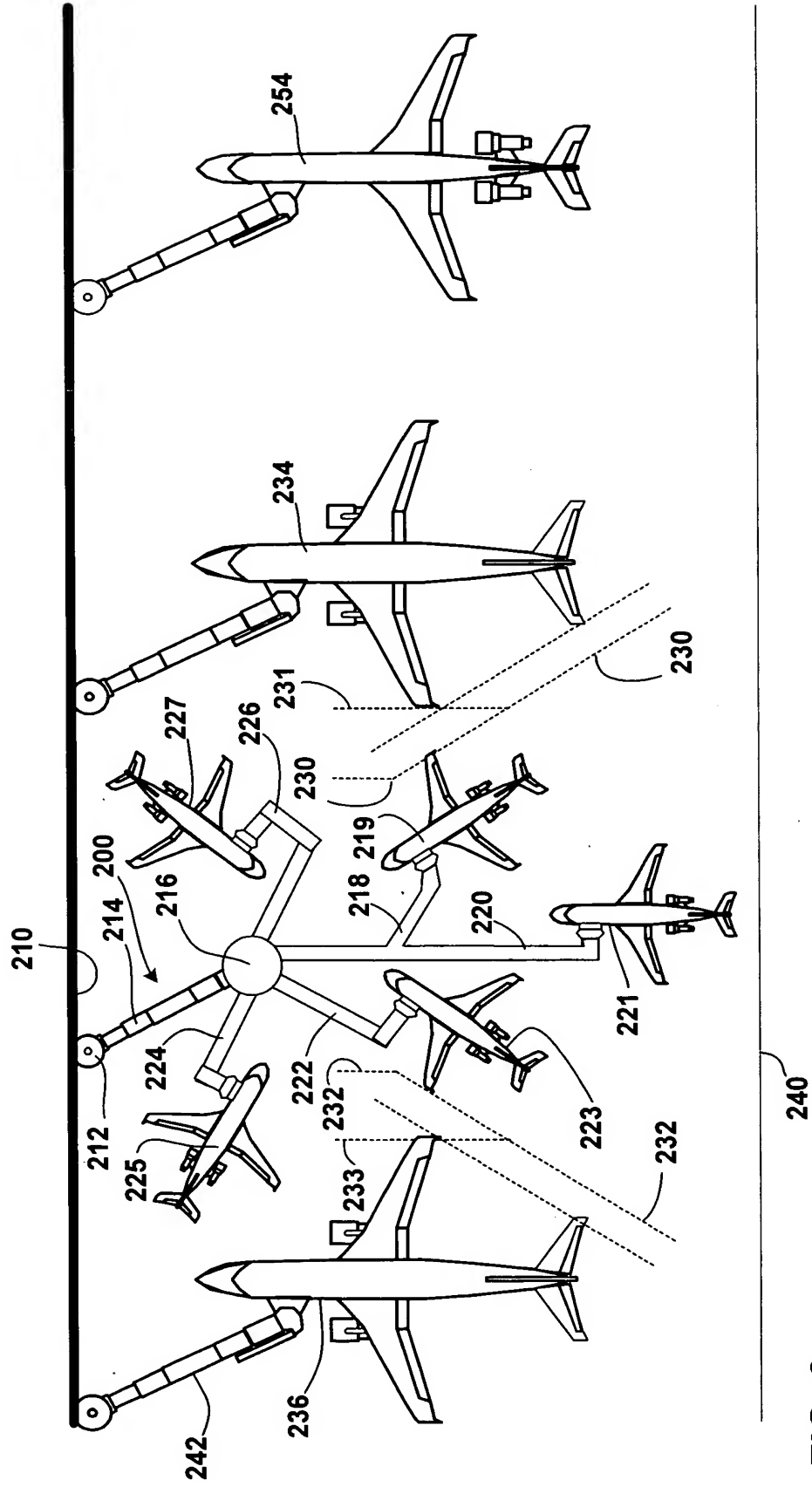


FIG. 2

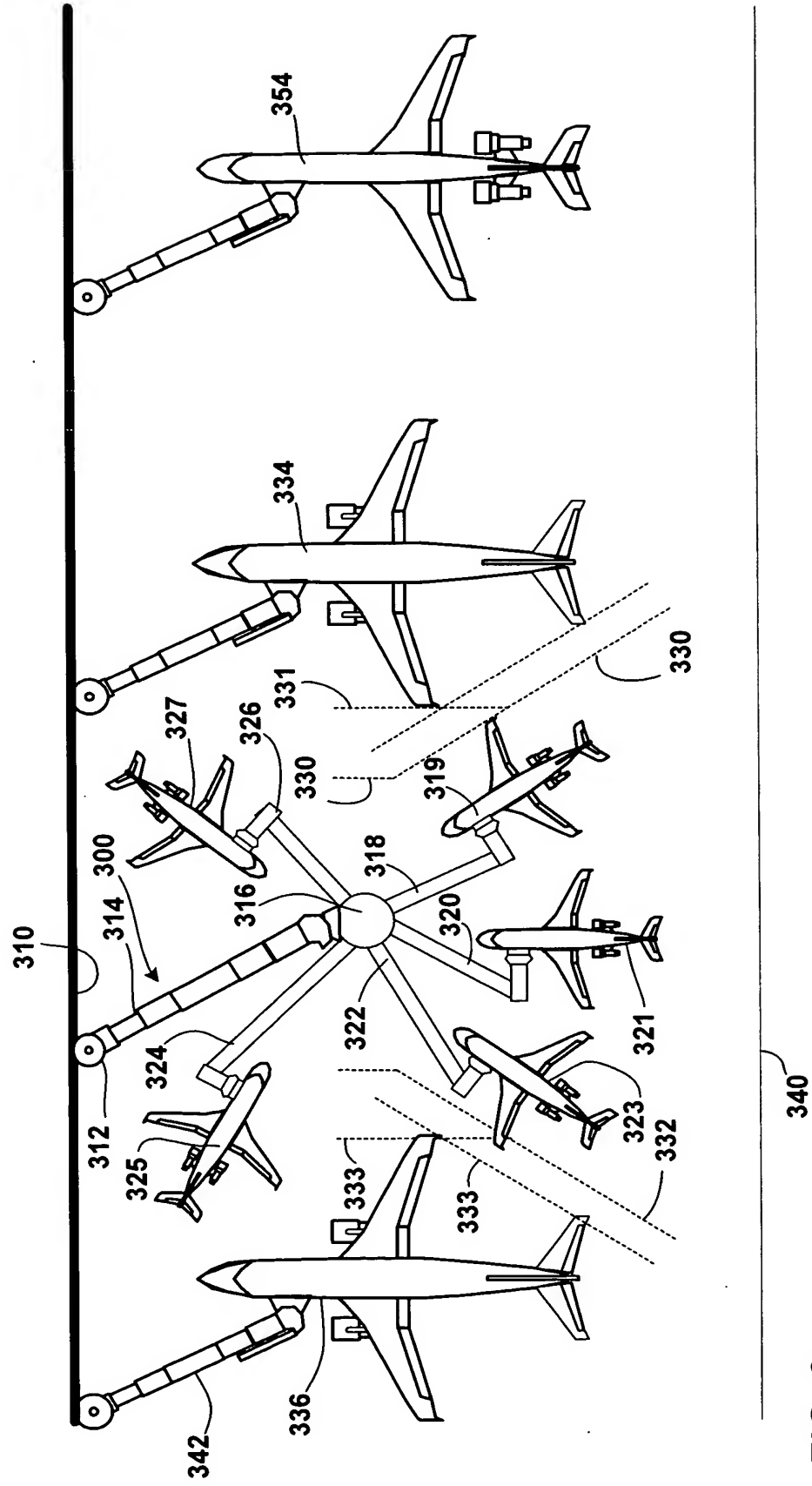


FIG. 3

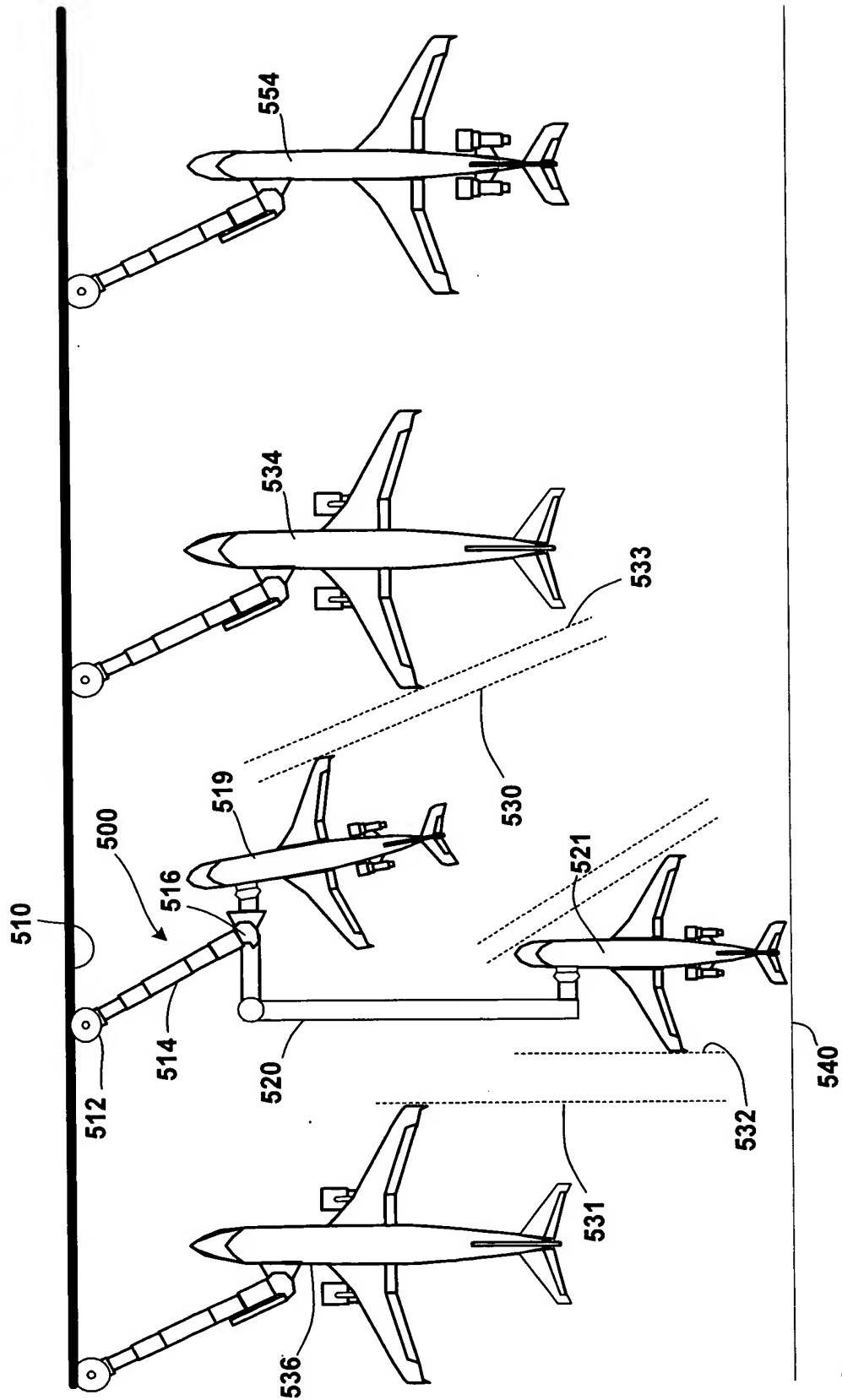


FIG. 5

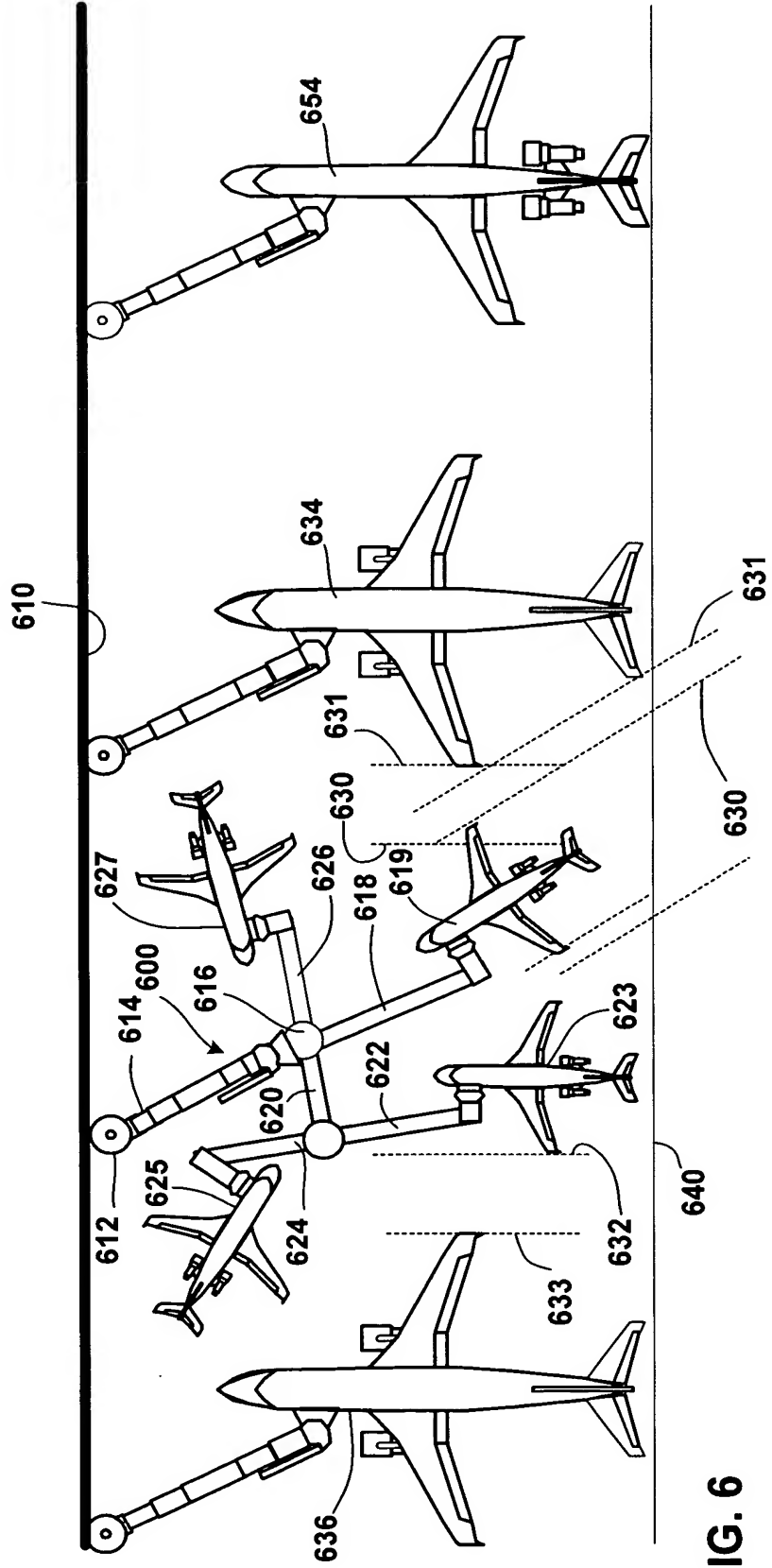


FIG. 6

TITLE:INTERSTITIAL REGIONAL AIRCRAFT BOARDING PIER, AND METHOD OF USING SAME
 INVENTORS NAME: John Greaves et al.
 SERIAL NO.: 10/661,942
 7/25

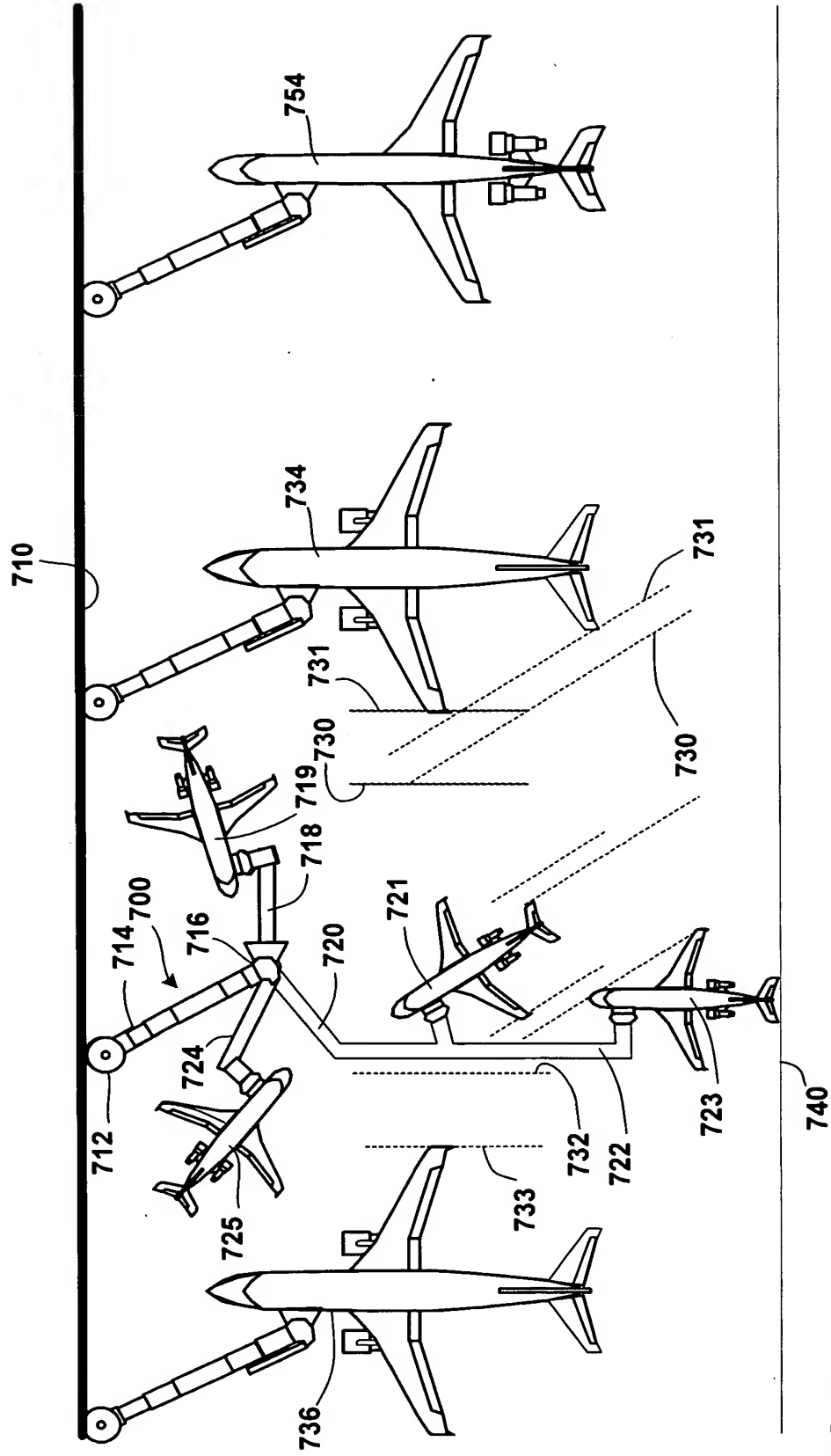


FIG. 7

TITLE:INTERSTITIAL REGIONAL AIRCRAFT BOARDING PIER, AND METHOD OF USING SAME
 INVENTORS NAME: John Greaves et al.
 SERIAL NO.: 10/661,942
 8/25

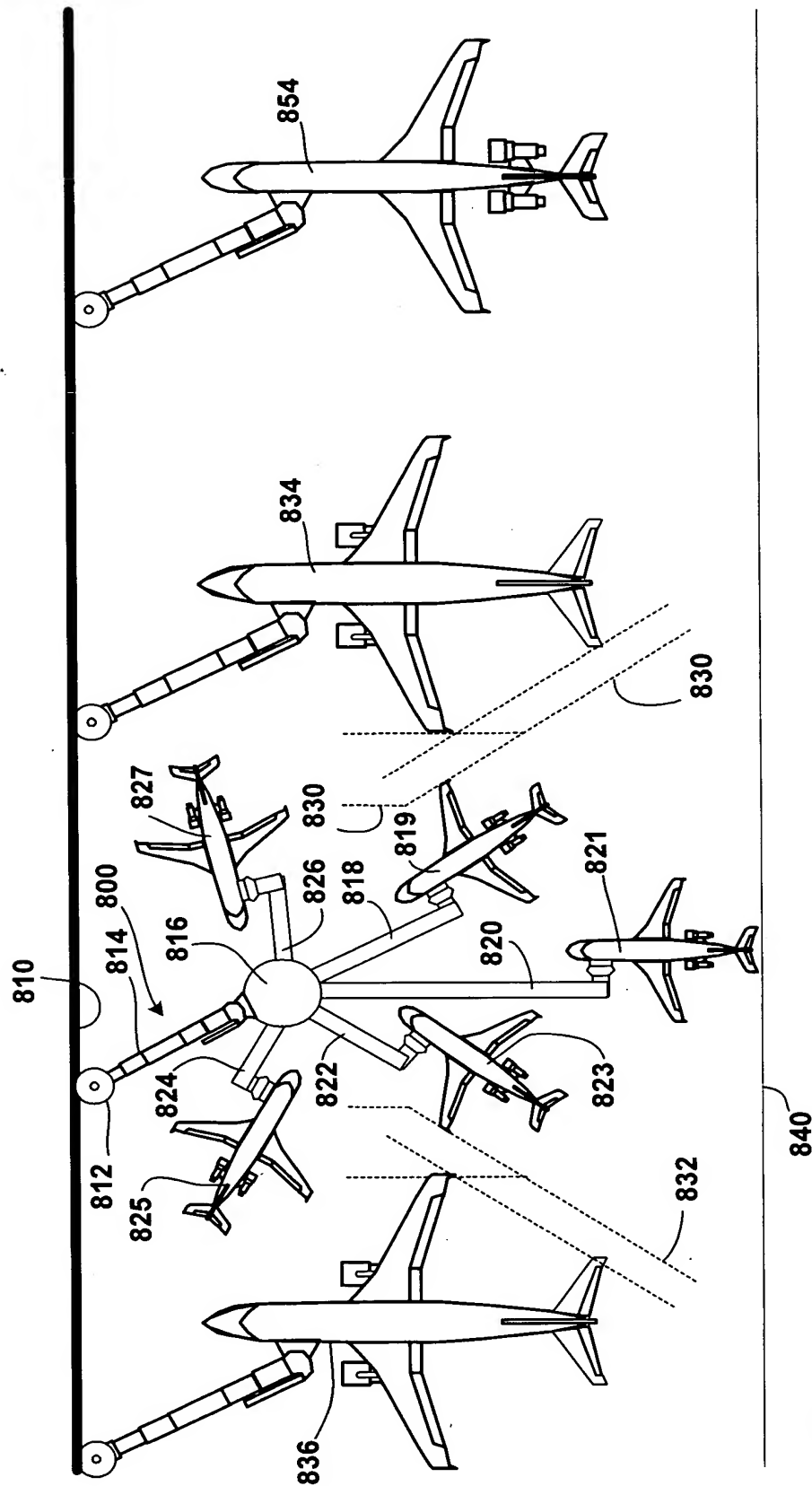


FIG. 8

TITLE:INTESTITAL REGIONAL AIRCRAFT BOARDING PIER, AND METHOD OF USING SAME
INVENTORS NAME: John Greaves et al.
SERIAL NO.: 10/661,942
9/25

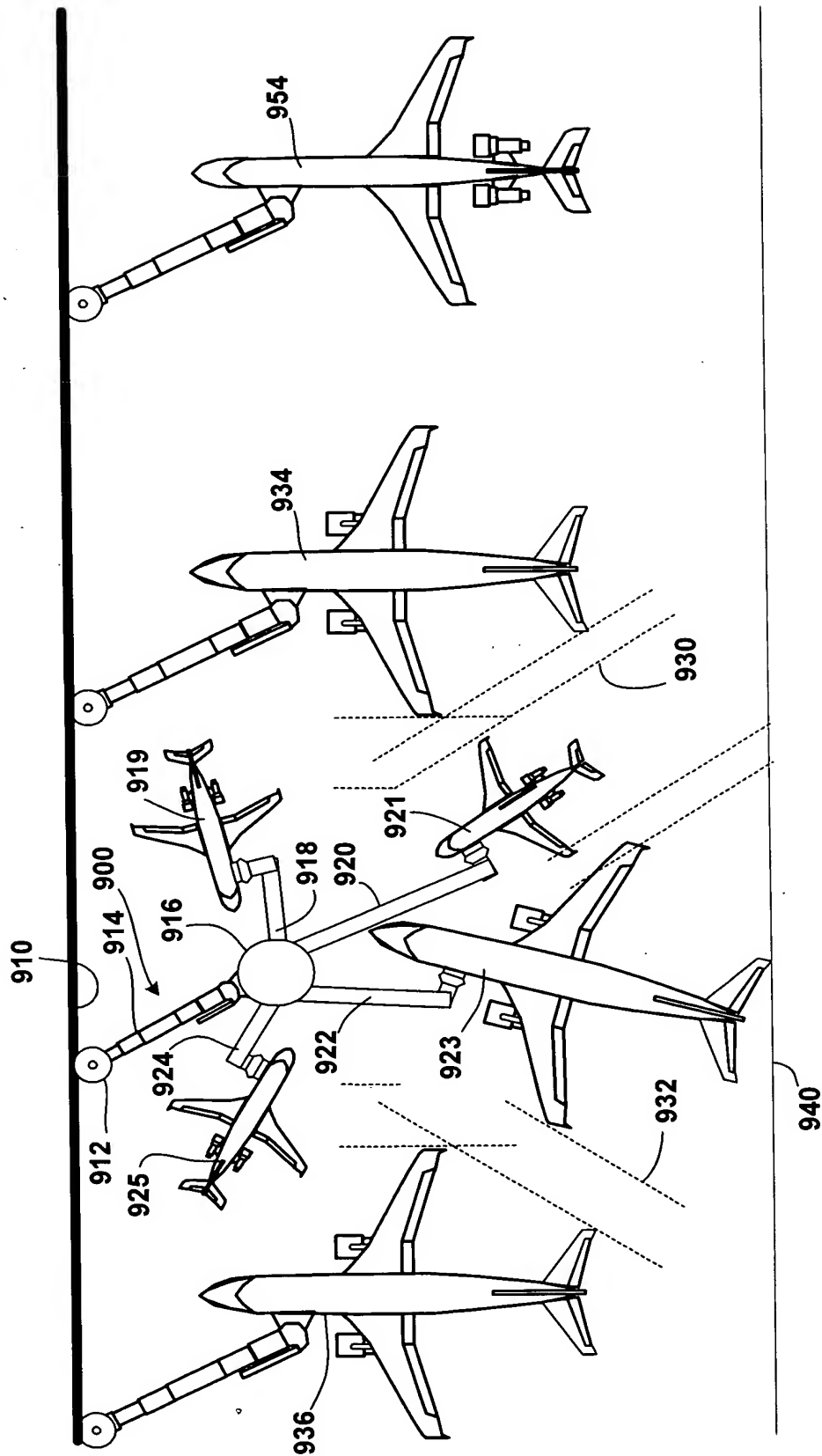


FIG. 9

TITLE:INTERSTITIAL REGIONAL AIRCRAFT BOARDING PIER, AND METHOD OF USING SAME
 INVENTORS NAME: John Greaves et al.
 SERIAL NO.: 10/661,942
 10/25

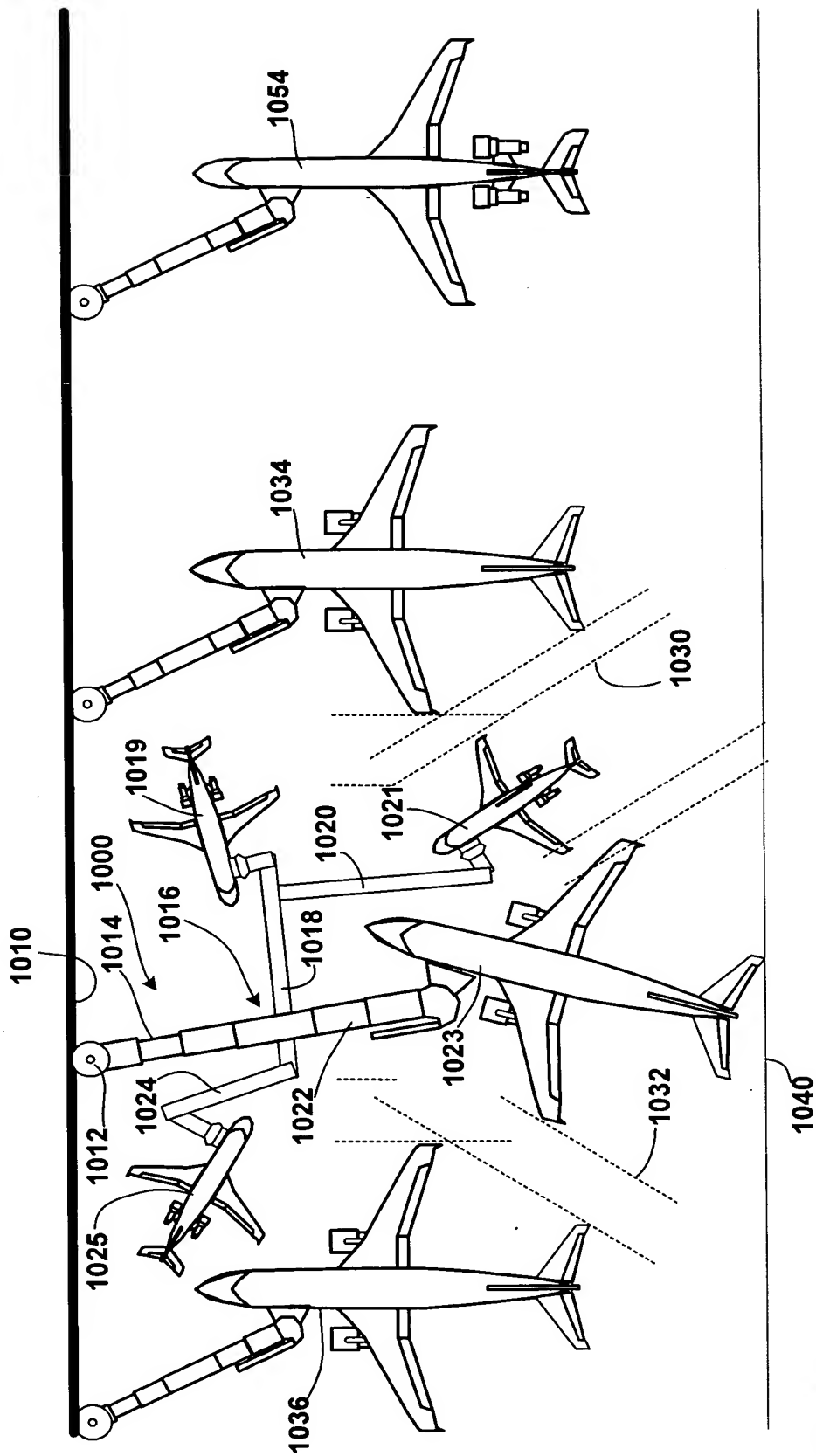
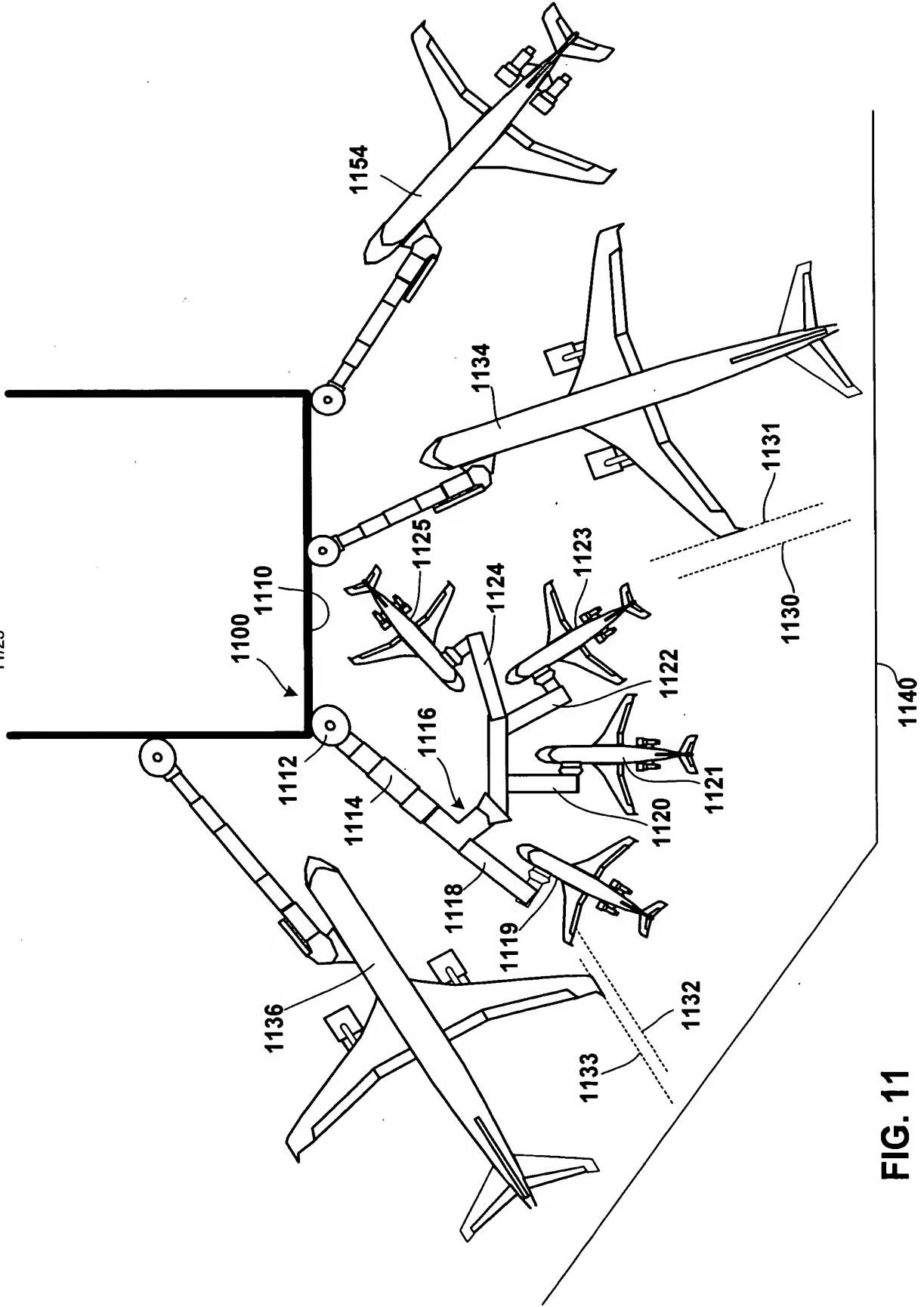
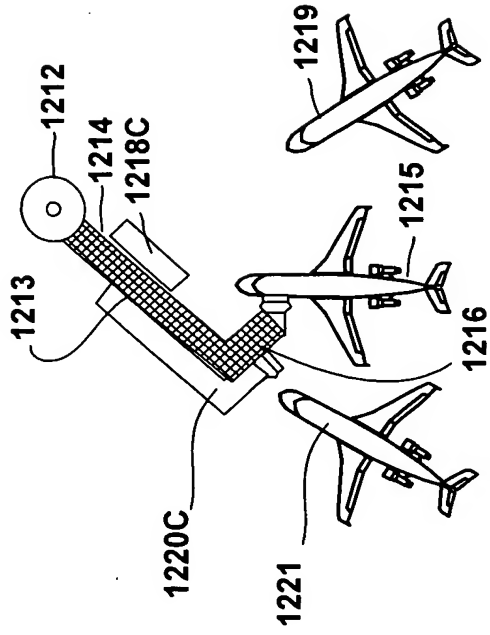
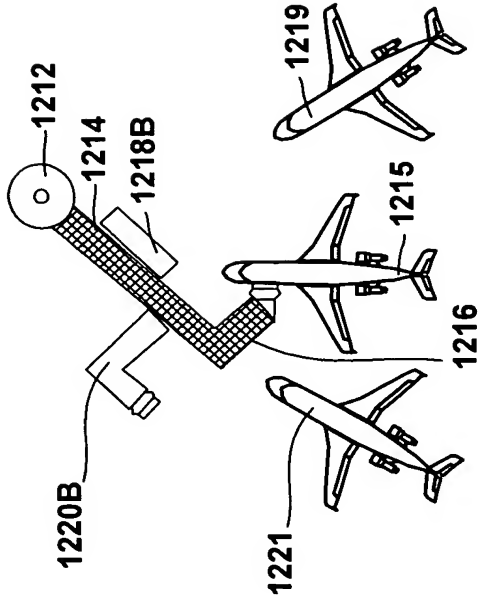
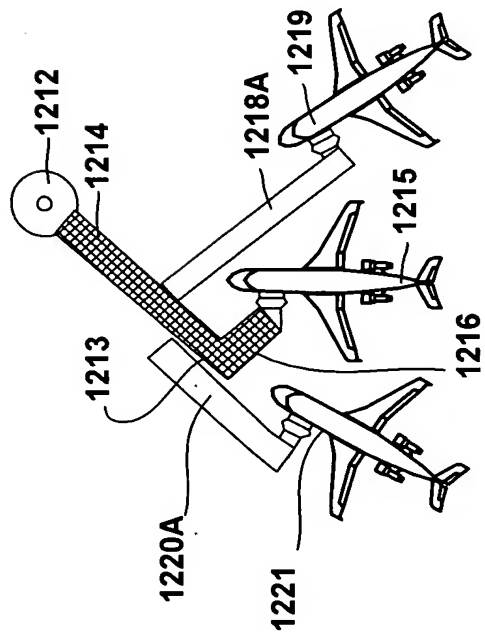


FIG. 10

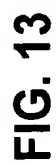




INVENTORS NAME: John Greaves et al.

SERIAL NO.: 10/661,942

13/25



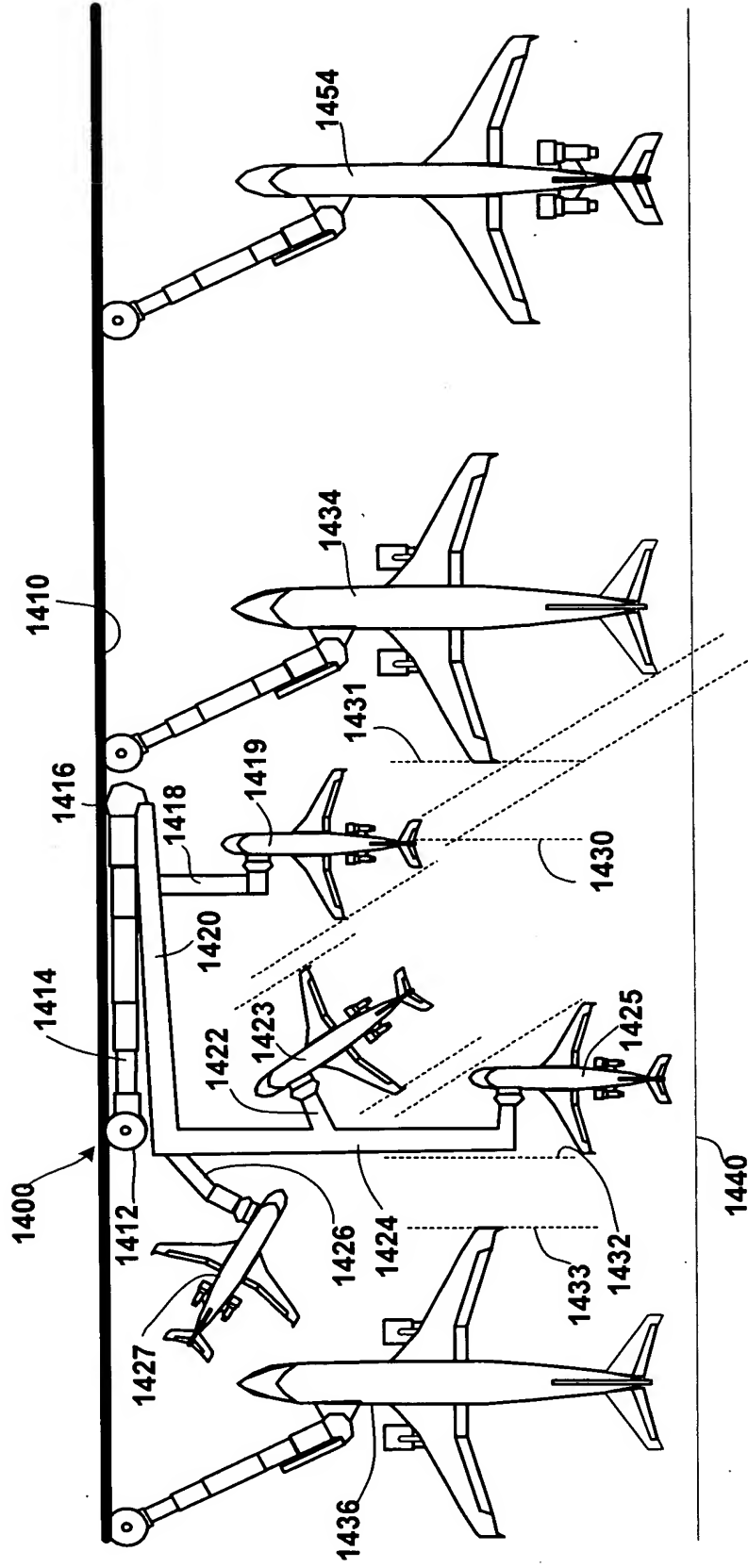


FIG. 14

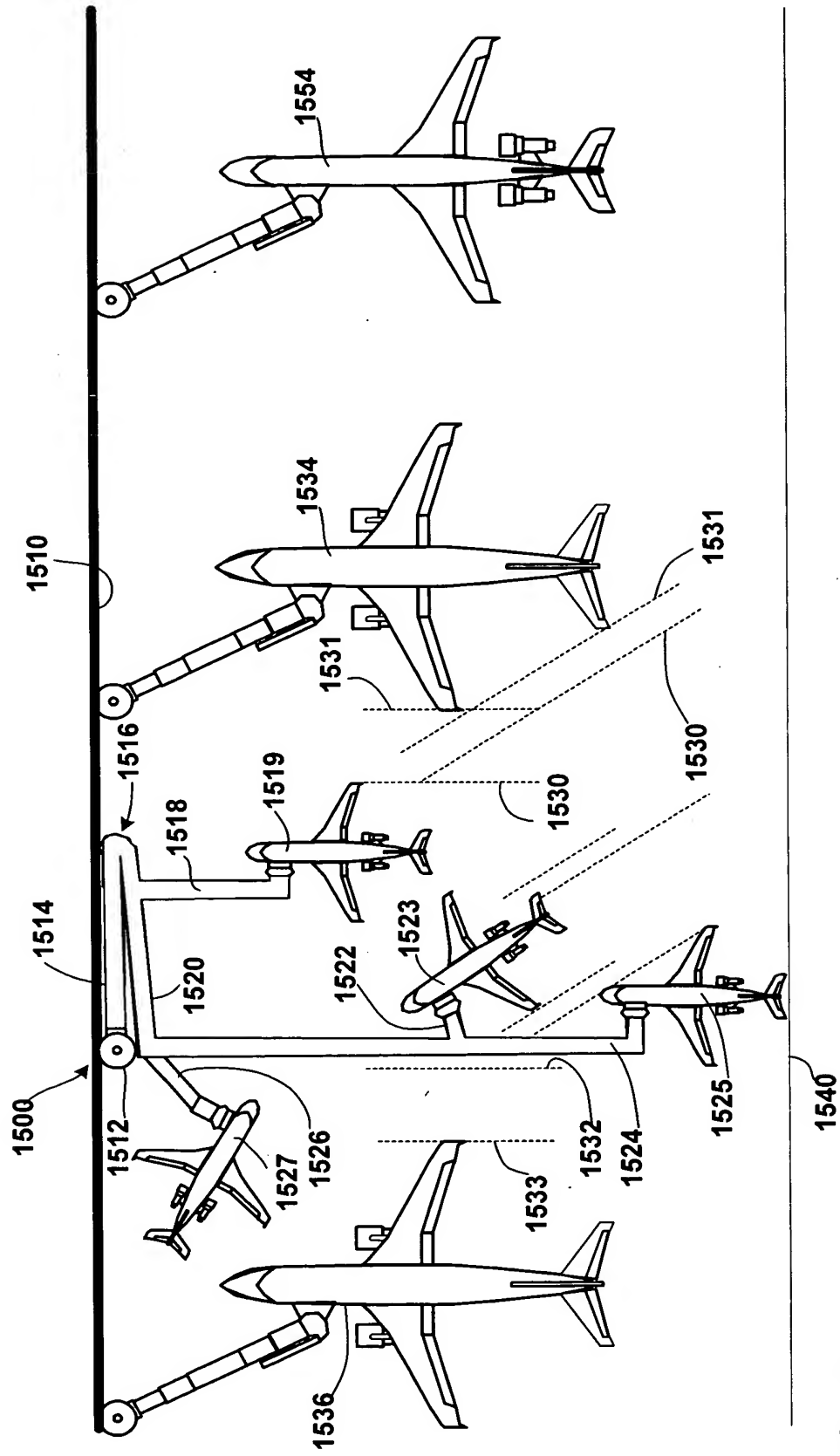


FIG. 15

16/25

This diagram illustrates a multi-armed robotic system for aircraft assembly. A central vertical track (1600) supports four articulated arms (1601, 1602, 1603, 1604). Each arm is composed of multiple segments (1612, 1614, 1616, 1618, 1619A, 1619B) and is equipped with a gripper (1631, 1632, 1633) at its end. The grippers are shown holding and positioning aircraft components (1630, 1631, 1632, 1633) relative to a fixed structure (1640). The diagram shows the sequence of operations for assembling a wing section, with the arms moving in a coordinated fashion to place each component.

FIG. 16

TITLE:INTESTITAL REGIONAL AIRCRAFT BOARDING PIER, AND METHOD OF USING SAME
 INVENTORS NAME: John Greaves et al.
 SERIAL NO.: 10/661,942
 17/25

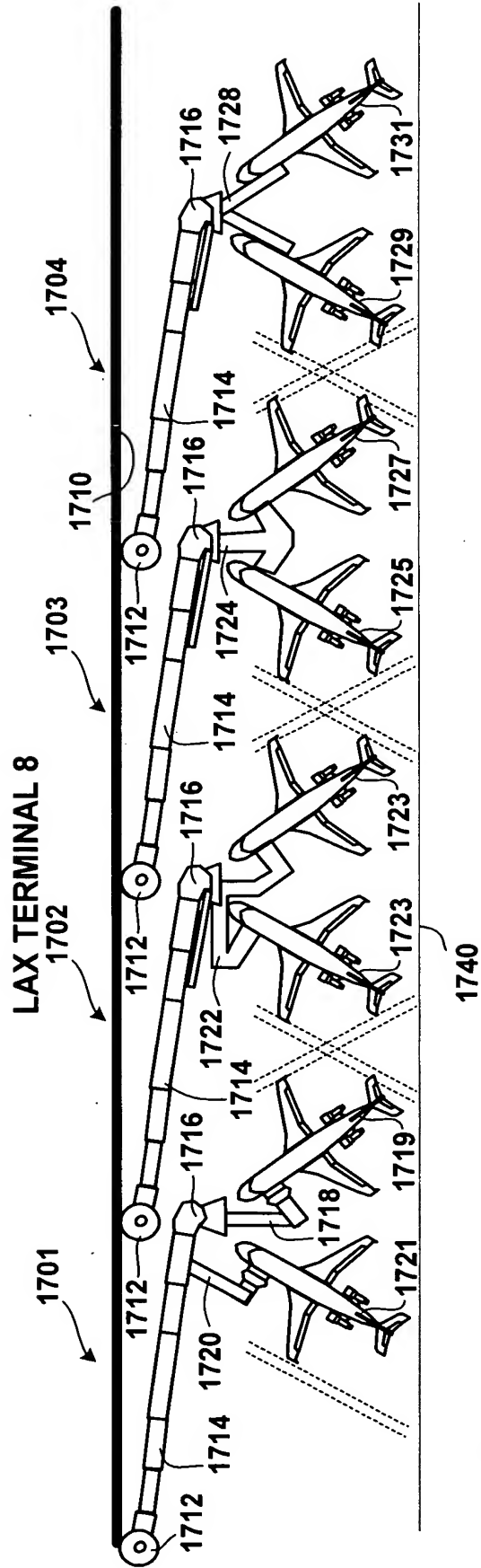


FIG. 17

TITLE:INTERSTITIAL REGIONAL AIRCRAFT BOARDING PIER, AND METHOD OF USING SAME
 INVENTORS NAME: John Greaves et al.
 SERIAL NO.: 10/661,942
 18/25

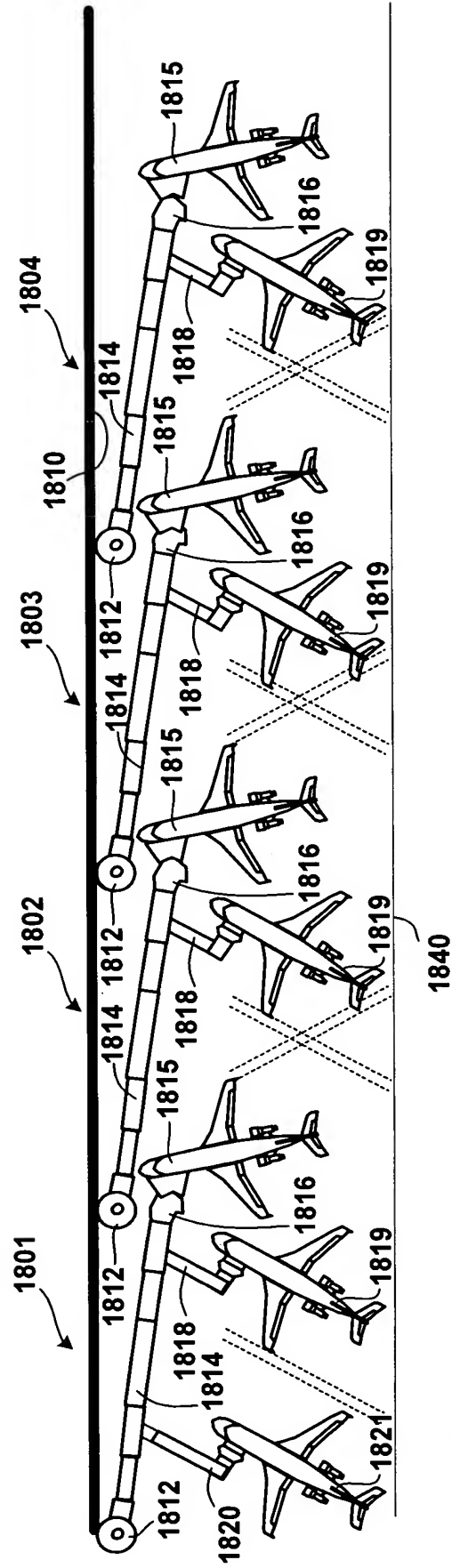


FIG. 18

TITLE:INTESTINAL REGIONAL AIRCRAFT BOARDING PIER, AND METHOD OF USING SAME
 INVENTORS NAME: John Greaves et al.
 SERIAL NO.: 10/661,942
 19/25

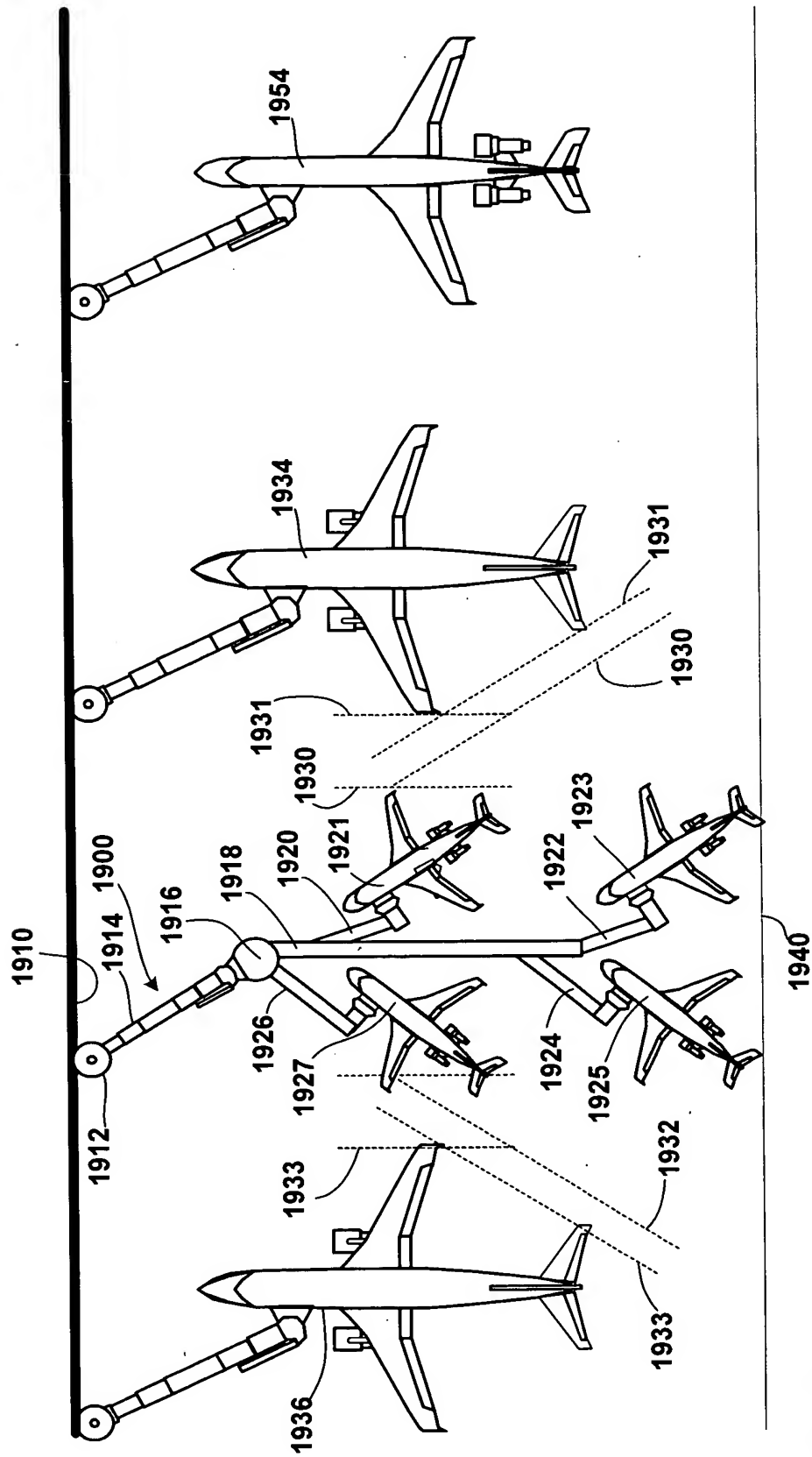


FIG. 19

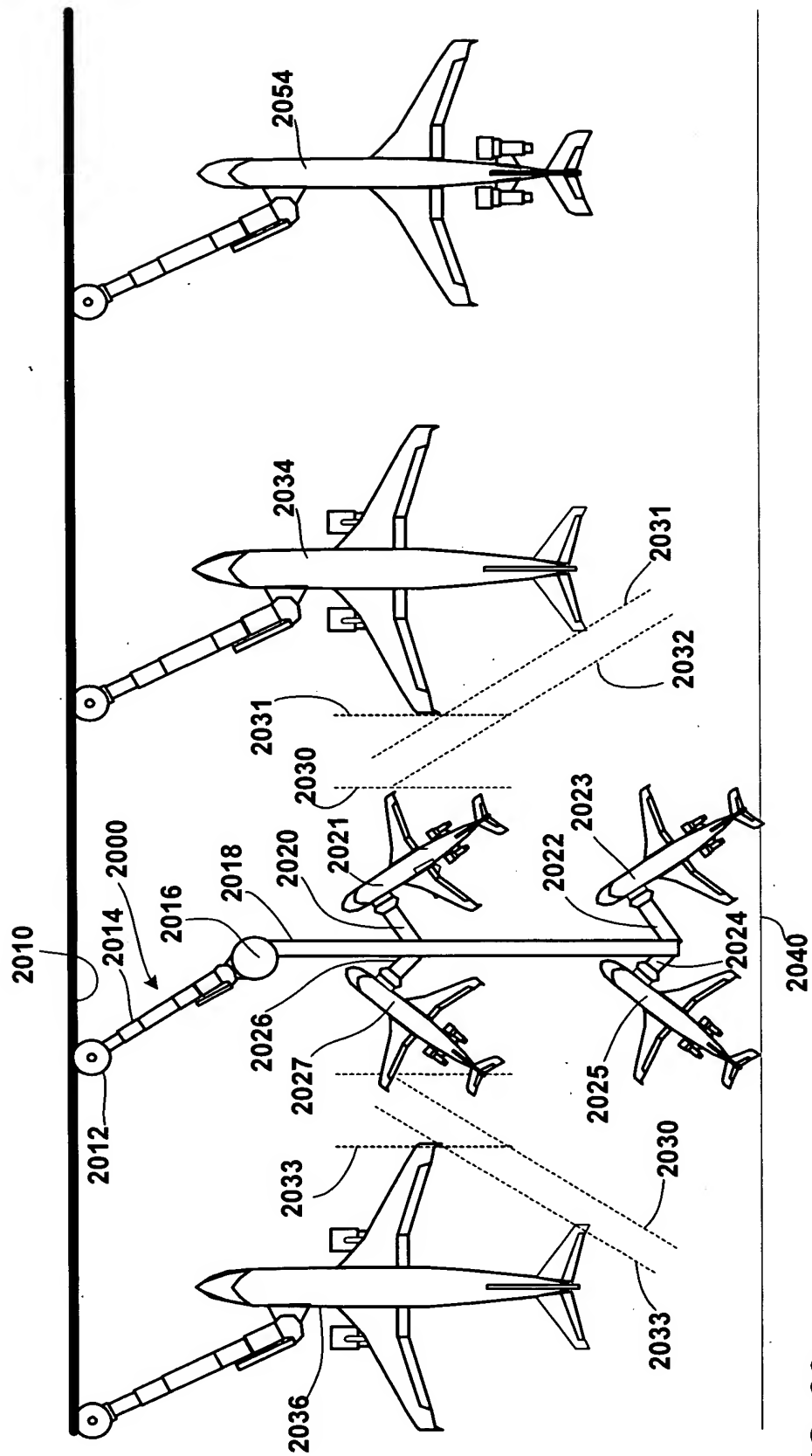


FIG. 20

TITLE:INTERSTITIAL REGIONAL AIRCRAFT BOARDING PIER, AND METHOD OF USING SAME
INVENTORS NAME: John Greaves et al.
SERIAL NO.: 10/661,942
21/25

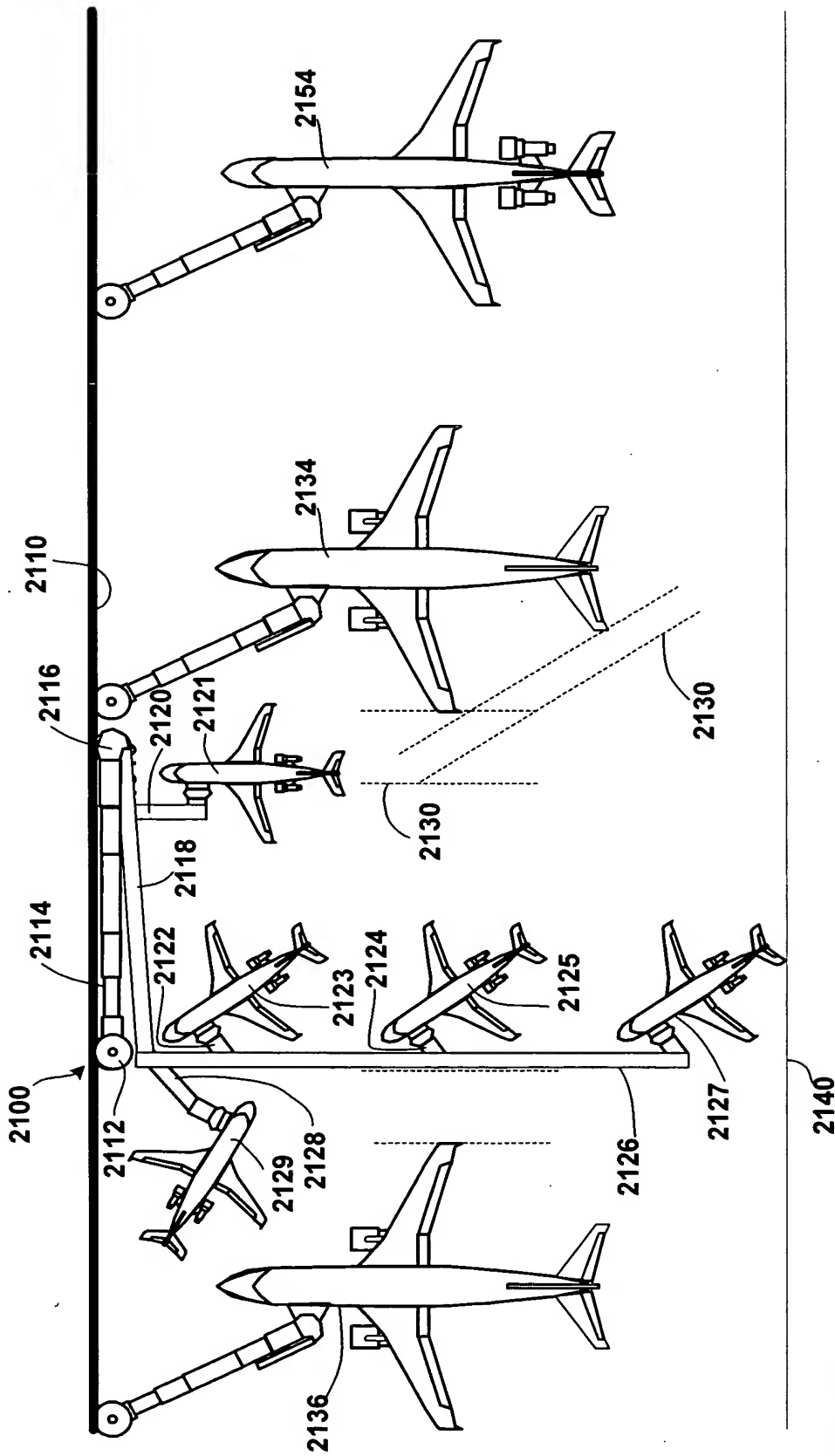


FIG. 21

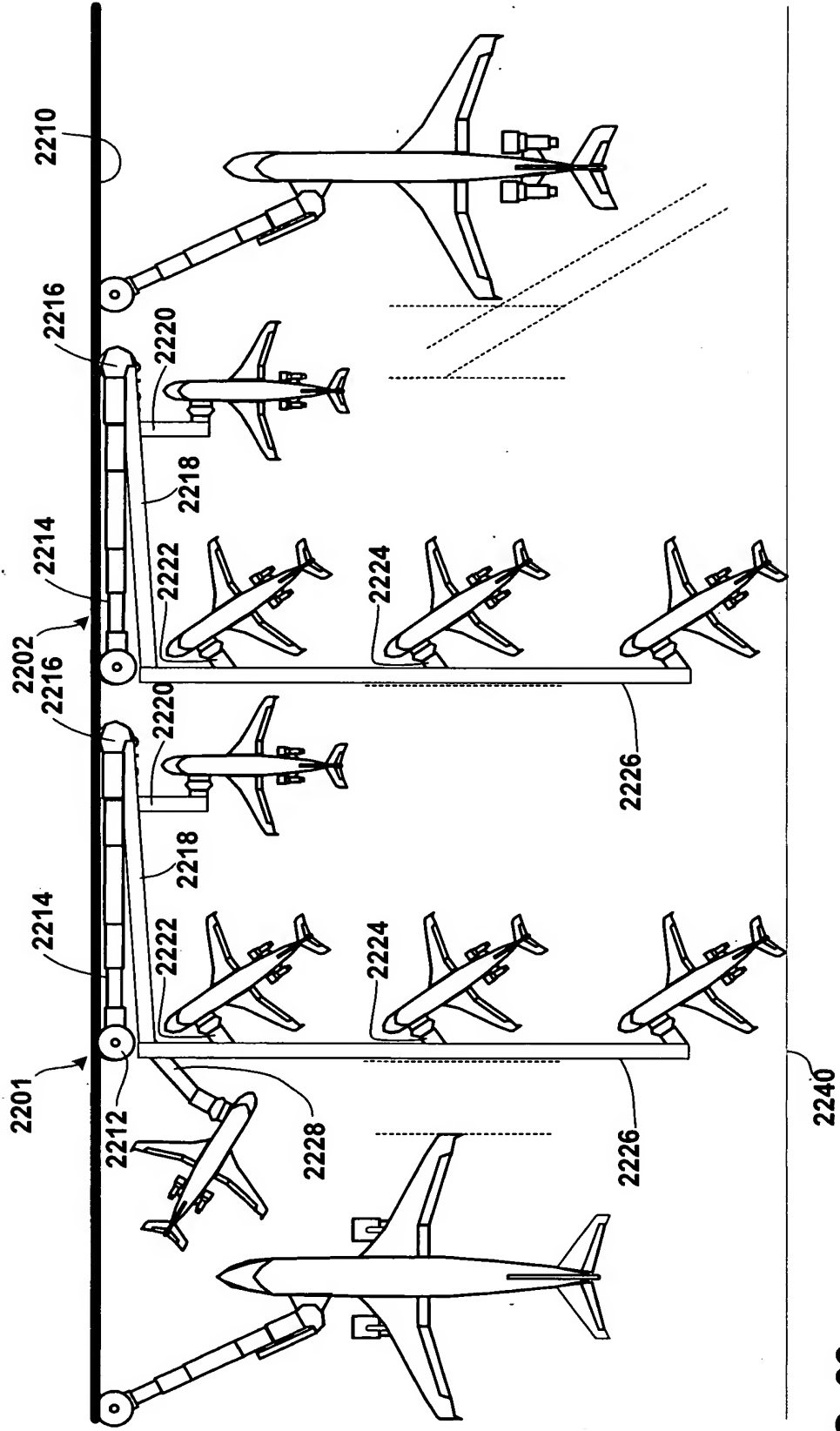


FIG. 22

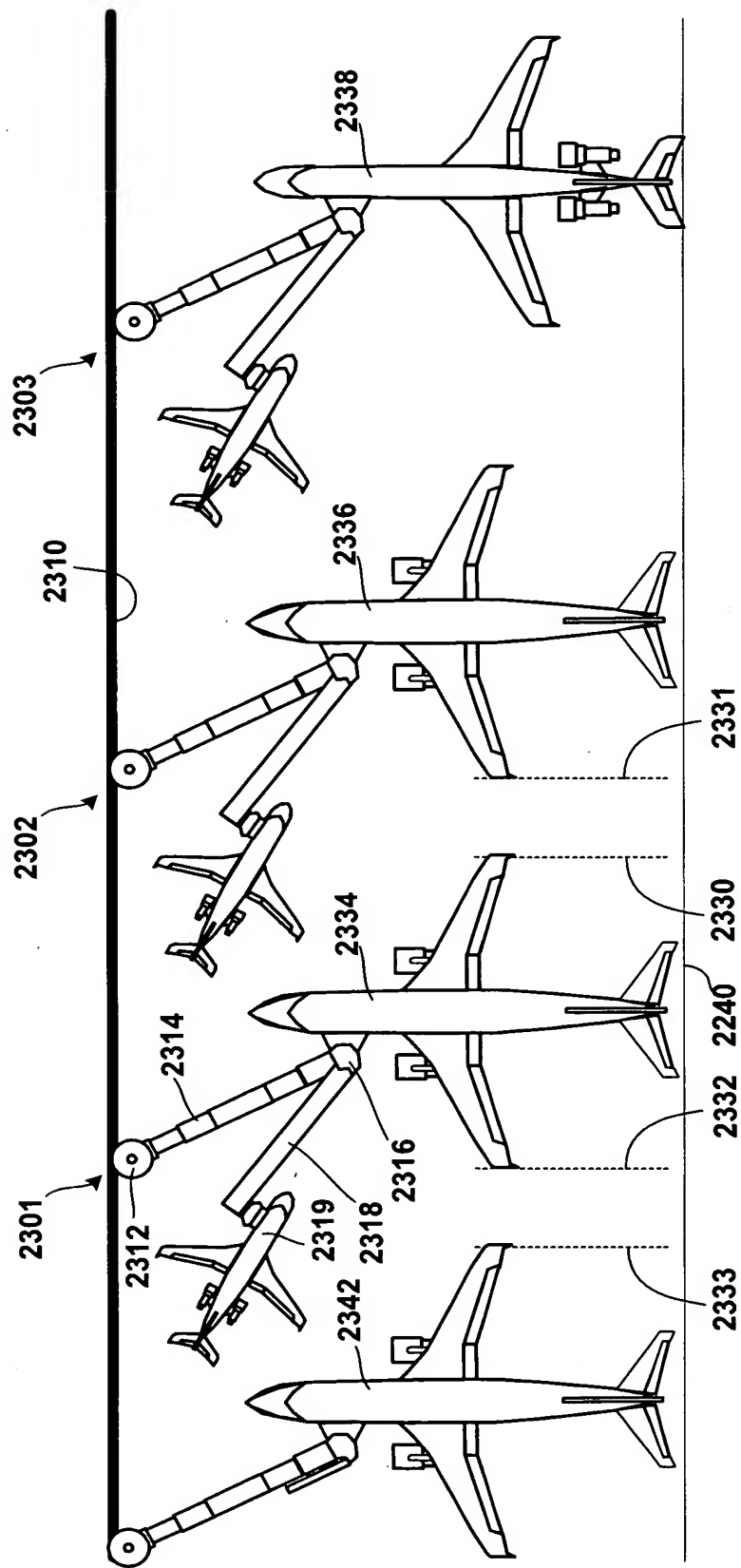
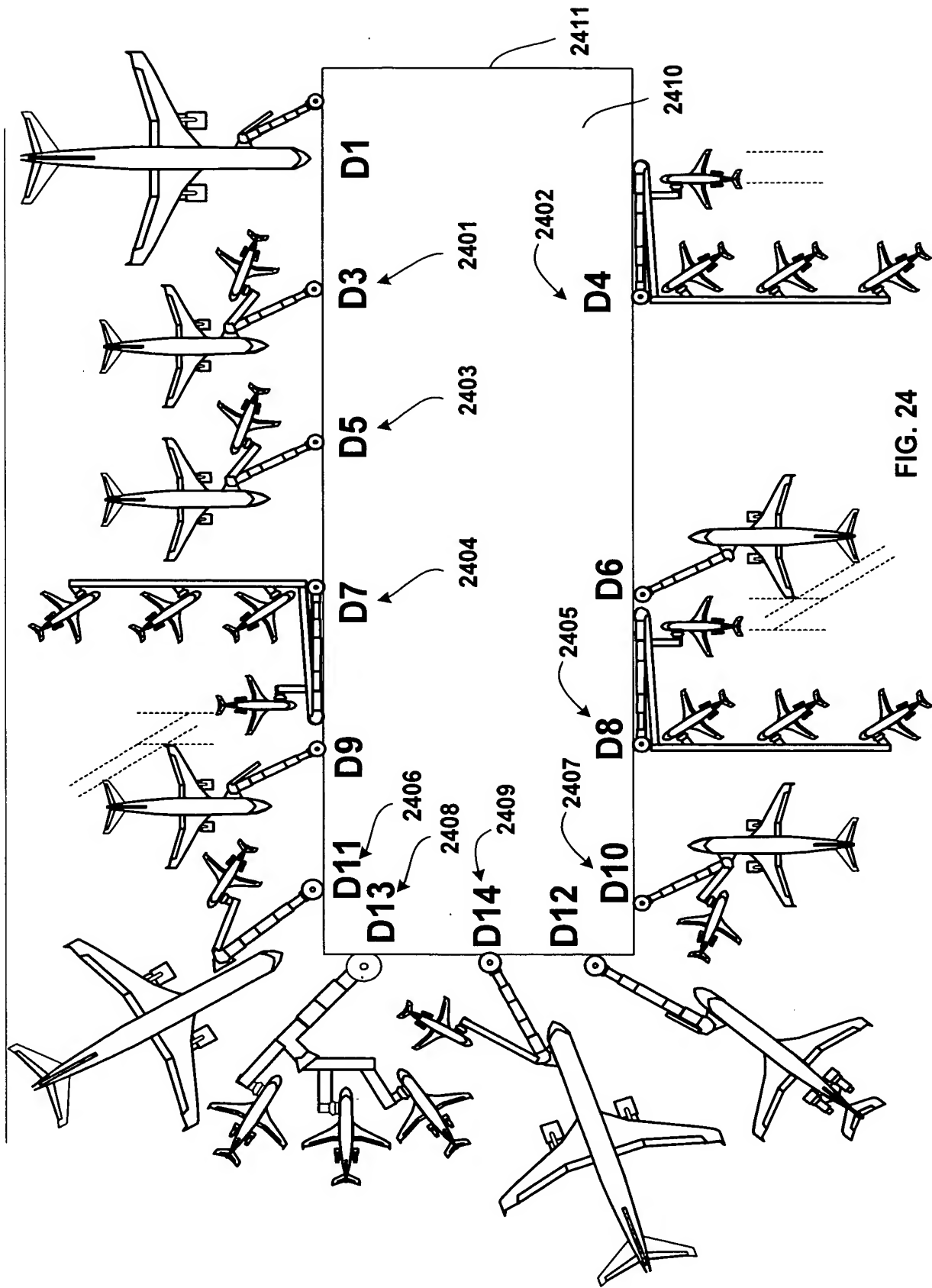


FIG. 23



2500 →

RETROFIT OR DESIGN AN
INTERSTITIAL REGIONAL AIRCRAFT
BOARDING PIER
FOR A CONOURSE

2510

FIG. 25

REPLACE AN EXISTING REGIONAL
AIRCRAFT CONOURSE WITH A
CONOURSE THAT INCLUDES AT
LEAST ONE INTERSTITIAL REGIONAL
AIRCRAFT BOARDING PIER

2520

DOCK AN AIRCRAFT AT AN
INTERSTITIAL REGIONAL AIRCRAFT
BOARDING PIER

2530

BOARD OR DEPLANE AT AN
INTERSTITIAL REGIONAL AIRCRAFT
BOARDING PIER

2540

TRANSFER BETWEEN AIRCRAFT,
USING AT LEAST ONE INTERSTITIAL
REGIONAL AIRCRAFT BOARDING
PIER

2550